

KCPE TRIAL EXAMINATION TERM 3 2017
STANDARD SEVEN,
MATHEMATICS

READ THESE INSTRUCTIONS CAREFULLY

1. You have been given the question booklet and a separate answer sheet. The question booklet contains 50 questions.
2. Do any necessary rough work in this booklet.
3. When you have chosen your answer, mark it on the **ANSWER SHEET**, not in the question booklet.

HOW TO USE THE ANSWER SHEET

4. Use an ordinary pencil only.
5. Make sure that you have written on the answer sheet

YOUR INDEX NUMBER

YOUR NAME

NAME OF YOUR SCHOOL

6. By drawing a **dark line** inside the correct numbered boxes mark your full Index Number (i.e. School Code Number and the three-figure Candidate's Number) in the grid near the top of the answer sheet.
7. Do not make any marks outside the boxes.
8. Keep your answer sheet as clean as possible and do not fold it.
9. For each of the Question 1 – 50 four answers are given. The answers are lettered A, B, C and D. In each case only **ONE** of the four answers is correct. Choose the correct answer.
10. On the answer sheet the correct answer is to be shown by drawing a **dark line** inside the box in which the letter you have chosen is written.

EXAMPLE

In the question Booklet

24. What is the square root of 0.0081?
- | | |
|-----------|----------|
| A. 0.9 | B. 0.09 |
| C. 0.6561 | D. 0.009 |

The correct answer is B (0.09)

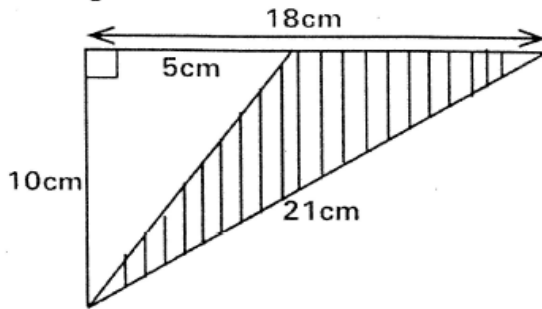
On the answer sheet:

4 [A] [B] [C] [D] **14** [A] [B] [C] [D] **24** [A] [B] [C] [D] **34** [A] [B] [C] [D] **44** [A] [B] [C] [D]

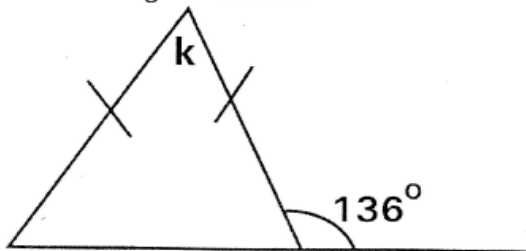
In the set of boxes numbered 24, the box with the letter B printed in it is marked.

11. Your **dark line** **MUST** be within the box.
12. For each question **ONLY ONE** box is to be marked in each set of four boxes.

- Which of the following numbers is four million four thousand and four?
A. 404004 B. 400404
C. 4004004 D. 4004400
- What is sum of 8496 and 3404 then round off your answer to the nearest thousands?
A. 11900 B. 11000
C. 10,000 D. 12000
- What is the difference between the square of 36 and the square root of 676?
A. 1322 B. 1270
C. 26 D. 1296
- What is the sum of prime numbers between 30 and 40?
A. 68 B. 107
C. 101 D. 103
- What is the area of the shaded part in the figure below?

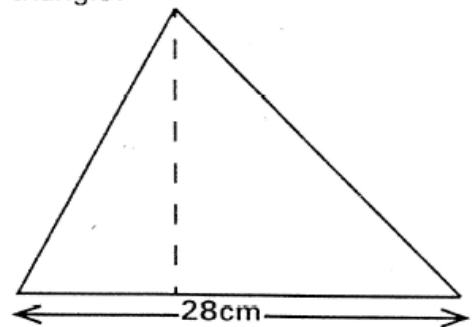


- 90 cm^2
 - 40 cm^2
 - 65 cm^2
 - 105 cm^2
- What is $56042 \div 14$?
A. 43 B. 403
C. 4030 D. 4003
- What is the size of the angle marked K in the figure below?



- 44°
- 92°
- 88°
- 68°

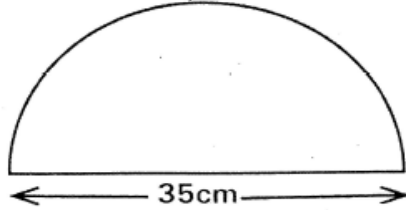
- What is 15% of 360?
A. 54 B. 414
C. 270 D. 90
- What is the square root of $6\frac{1}{4}$?
A. $2\frac{1}{2}$ B. $39\frac{1}{16}$
C. $3\frac{1}{2}$ D. $1\frac{1}{2}$
- What is the total value of digit 8 in 864321?
A. 8000 B. 80000
C. 800000 D. 8000000
- What is the least number that can be subtracted from 21586 to make it divisible by 11?
A. 7 B. 5 C. 3 D. 4
- The area of the triangle below is 168 cm^2 . What is the height of the triangle?



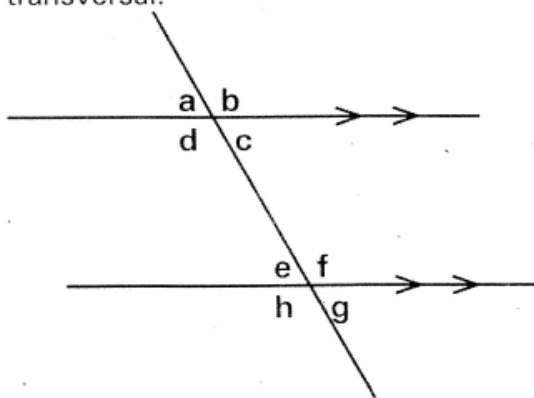
- 14cm
 - 12cm
 - 6cm
 - 8cm
- What is the next number in the series 3, 4, 7, 11, 18,
A. 29 B. 30 C. 27 D. 28
 - Simplify; $7(3x + 2y) + 4(x-3y)$
A. $25x + 11y$ B. $25x - 2y$
C. $25x + 2Y$ D. $25x + 26y$
 - A shop keeper packed 20kgs of tea in $\frac{1}{4} \text{ kg}$ packets. How many packets did he pack?
A. 5 B. 80 C. 40 D. 120
 - What is 0.07 m^3 in Cubic centimeters?
A. 70 B. 700
C. 7000 D. 70000

17. What is the perimeter of the figure below?

Take $\pi = \frac{22}{7}$



- A. 55m
B. 80m
C. 90m
D. 145m
18. What is 1.7468 correct to three decimal places?
A. 1.746
B. 1.747
C. 1.75
D. 1.750
19. The figure below shows angles formed by a pair of parallel lines and a transversal.



Which group below are each of the angles equals to C?

- A. f, h, h
B. e, g, a
C. e, g, b
D. b, d, g
20. What is the place value of digit 7 in the number 746242?
A. Hundred thousand
B. Ten thousand
C. Million
D. Thousands
21. Which of the following represents length of sides of a right angled triangle?
A. 7cm, 12cm, 13cm
B. 4cm, 5cm, 25cm
C. 3cm, 4cm, 6cm
D. 12cm, 16cm, 20cm

22. What is the value of;
 $8(7^2 - 4^2) + 48 \div 8$?
A. 12
B. 39
C. 270
D. 54

23. What is the value of m in the equation $3(m - 2) = 12$
A. 2
B. 6
C. 4
D. $4\frac{2}{3}$

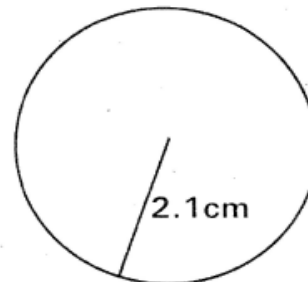
24. Simplify; $2 - \frac{1}{4} - \frac{1}{3}$
A. $1\frac{5}{12}$
B. $1\frac{11}{12}$
C. $1\frac{3}{4}$
D. $1\frac{2}{3}$

25. Arrange the following fractions $\frac{5}{8}$, $\frac{2}{3}$, $\frac{7}{12}$ and $\frac{3}{5}$ in descending order.
A. $\frac{7}{12}$, $\frac{3}{5}$, $\frac{5}{8}$, $\frac{2}{3}$
B. $\frac{2}{3}$, $\frac{5}{8}$, $\frac{3}{5}$, $\frac{7}{12}$
C. $\frac{2}{3}$, $\frac{3}{5}$, $\frac{5}{8}$, $\frac{7}{12}$
D. $\frac{7}{12}$, $\frac{5}{8}$, $\frac{3}{5}$, $\frac{2}{3}$

26. What is the value of;
 $6\frac{1}{4} \div \frac{5}{7} \times \frac{1}{5} + \frac{1}{4}$
A. $8\frac{1}{4}$
B. $3\frac{15}{16}$
C. $1\frac{3}{4}$
D. 2

27. What is the volume of a rectangle tank, which measures 30cm by 20 cm by 0.1 m?
A. 6000 cm^3
B. 600 cm^3
C. 60 cm^3
D. 6 cm^3

28. What is the Circumference of the circle below? Take $\pi = \frac{22}{7}$



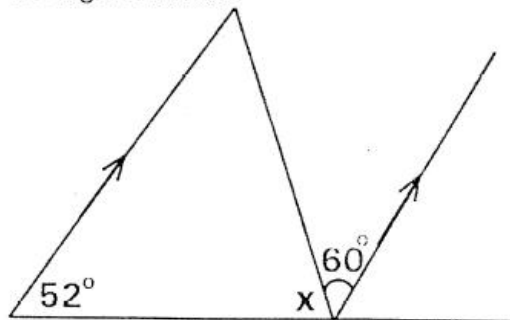
- A. 6.6cm
B. 1.32 cm
C. 13.2 cm
D. 66cm
29. Atieno bought 10 more oranges than apples, while bananas were twice the number of oranges. If she bought X apples, how many fruits did she buy altogether?
A. $4x + 20$
B. $4x - 30$
C. $5x - 20$
D. $4x + 30$

30. What is the GCD of 12, 18 and 36?
A. 6 B. 12 C. 3 D. 2

31. Wario bought the following items from a shop;
2Kgs of cooking fat @ sh. 100 per Kg
2 Loaves of bread for sh90
2 packets of Unga @ sh. 80 per packet

What balance did he get from a thousand shilling note?

- A. Sh. 450 B. sh. 550
C. sh. 460 D. sh. 730
32. What is the value of angle marked x in the figure below?



- A. 52° B. 60° C. 68° D. 76°

33. What is the value of;
 $bx^2 + 4nb^2$ when $x = 3$,
 $b = 2$ and $n = 5$?
- A. 1636 B. 98
C. 709 D. 192
34. The price of a dress was reduced from sh. 500 to sh. 400. What was the percentage decrease?
- A. 25% B. 125%
C. 20% D. 80%

35. What is the volume of a cube whose side is 8cm?
- A. 24cm^3 B. 64cm^3
C. 412cm^3 D. 512cm^3

36. A car is travelling at a speed of 25 metres per second. What is its speed in Kilometers per hour?
- A. 90km/h B. 80 km/h
C. 60km/h D. 30km/h

37. Express; $\frac{2}{25}$ as decimal
A. 0.08 B. 0.008
C. 0.004 D. 0.4

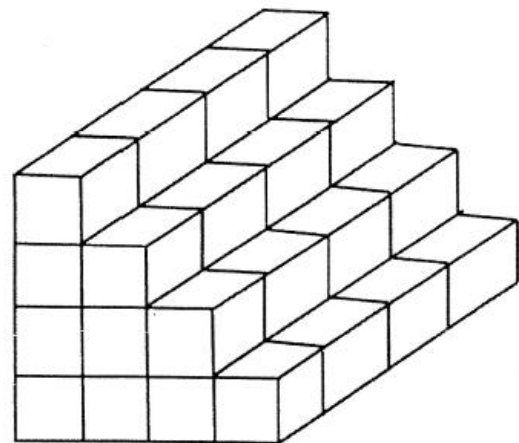
38. Work out; $(1\frac{1}{2})^2 + \sqrt{2\frac{1}{4}}$
- A. 3 B. $1\frac{1}{2}$
C. $3\frac{3}{4}$ D. $4\frac{1}{2}$

39. A pupil drew a quadrilateral which had the following properties;
- All sides were equal
 - Opposite sides were parallel
 - Diagonals not equal
 - Diagonal bisect each other and meet at 90°

The figure described above is

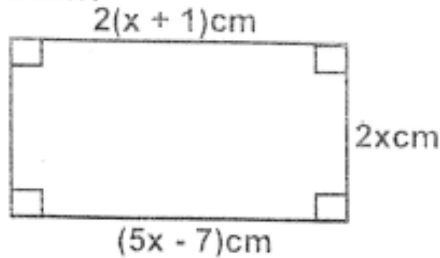
- A. Square
B. Rhombus
C. Rectangle
D. Parallelogram

40. Which of the following numbers is divisible by 8?
- A. 27934 B. 34498
C. 12038 D. 32256
41. How many cubes were used to make the stack below?



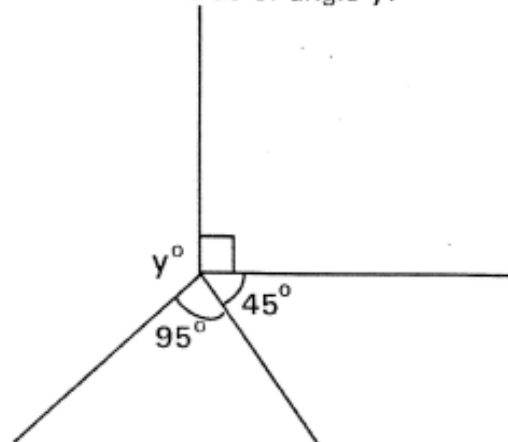
- A. 64 B. 24
C. 22 D. 40

42. What is the area of the rectangle below?



- A. 40cm^2 B. 48cm^2
C. 42cm^2 D. 36cm^2

43. What is the value of angle y ?



- A. 130° B. 140°
C. 150° D. 120°

44. Express 0.145 as a percentage.

- A. 154% B. 14.5%
C. 1.45% D. 0.145%

45. Write CCXLVI in Hindu Arabic Numbers.

- A. 256 B. 255
C. 246 D. 245

46. What is the value of 2.04×69.77 ?

- A. 141.188 B. 142.178
C. 142.188 D. 132.188

47. Jakoyo got $\frac{5}{6}$ of sh. 1920. Omwega got $\frac{4}{5}$ of what Jakoyo got. How much money did Omwega get?

- A. sh. 1600 B. sh. 1536
C. sh. 256 D. sh. 1280

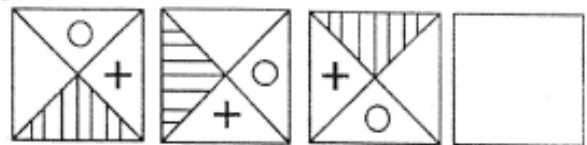
48. $\frac{2}{3}$ of the pupils in Nyota Primary School were boys. On the last day of the term $\frac{1}{8}$ of the boys and $\frac{1}{12}$ of the girls were absent. What fractions of the pupils in the school were absent?

- A. $\frac{1}{9}$ B. $\frac{5}{24}$
C. $\frac{1}{3}$ D. $\frac{1}{12}$

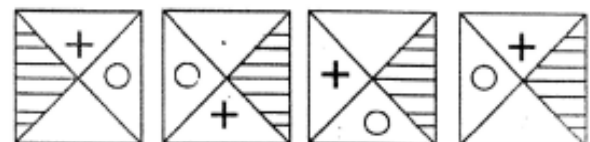
49. The perimeter of a rectangular plot is 600m. Poles are fixed at intervals of 3 m. How many poles are required to fence the whole plot?

- A. 200 B. 201
C. 199 D. 20

- 50.



What is the next shape in the pattern above?



- A. B. C. D.